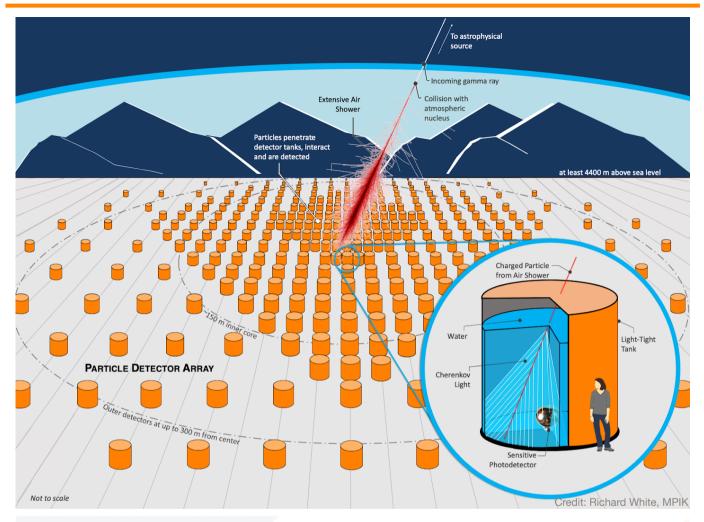
The Southern Wide-field
Gamma-ray Observatory
(SWGO) is an astrophysical
gamma-ray observatory to
be built in South America.

swgo will detect very
high-energy light known as
gamma rays entering
the Earth from outer
space.

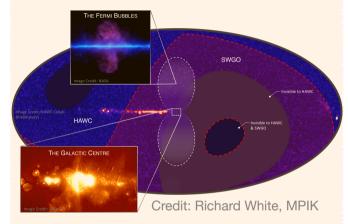
The SWGO Collaboration involves more than 200 scientists from 14 countries.





SWGO will be a high-altitude gamma-ray astrophysical observatory installed over 4,400 meters above sea level. The detector will consists of thousands of detector units, which could be deployed as an array of individual detector units, or assembled in a building. Detector units could be spread on the ground or submerged in a lake. The detector will cover square kilometer and each detector will have several tons of water, while the whole array will contain several thousands of tons of it.

swgo will be the first
high-altitude gamma-ray
observatory to provide
wide-field coverage of a large
portion of the southern sky.



Gamma-ray sky image as seen with the (current) HAWC and (future) SWGO observatories.

swgo will complement current and future instruments such as HAWC, LHAASO, and CTA, a worldwide multi-messenger effort, to unveil extreme astrophysical phenomena.

sky at the highest energies,
enabling studies of extreme cosmic
objects such as supermassive black
holes and remnants of supernova
explosions while also probing the
nature of dark matter.

**SWGO** also aims to develop a **positive relationship** with the host country and the local community.

Want to know more?



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